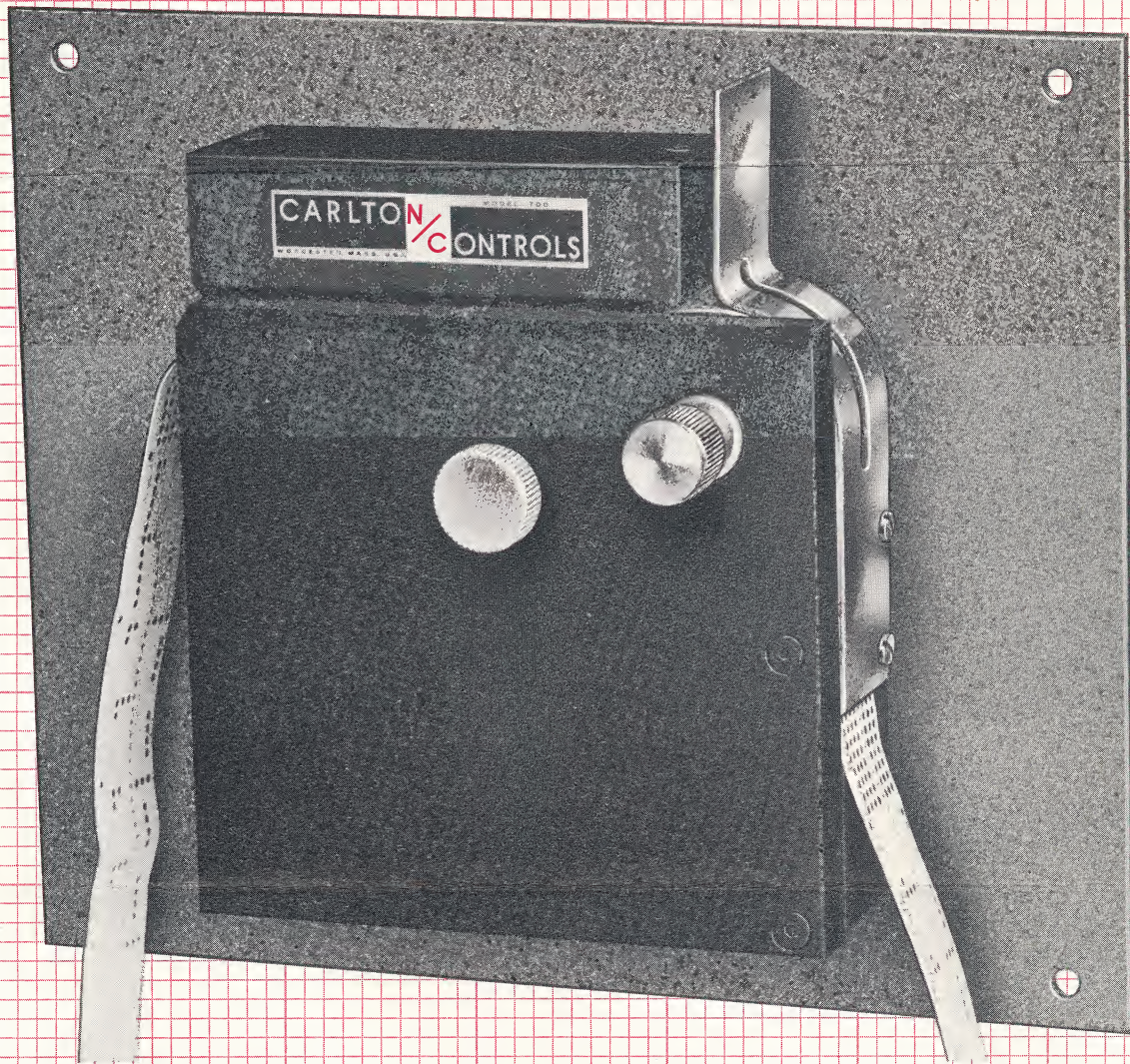


**PHOTOELECTRIC  
TAPE READER**

**MODEL TR-10**



**MECHANICAL SPECIFICATIONS**

**WEIGHT: 3 POUNDS**

**DIMENSIONS: 7" HIGH 7" WIDE 1½" DEEP**

**ELECTRICAL SPECIFICATIONS**

**INPUT VOLTAGE (TO POWER SUPPLY):**

**115 VAC ±10%**

**PHOTOCELL VOLTAGE:**

**+6 VDC**

**MOTOR VOLTAGE:**

**12 VDC (2/0/+10)**

**MOTOR CURRENT:**

**2 AMPERES**

**OUTPUT VOLTAGE LEVEL:**

**1 VDC OR LESS (PERFORATED)**

**5 VDC OR MORE (UNPERFORATED)**

## STANDARD FEATURES

- *9 High-Sensitivity Silicon Phototransistors:*
  - Insure temperature stability over wide range
  - Give extremely fast response
  - Provide high signal-to-noise ratio (better than 10 to 1)
  - Will read any color of normal 4 mil 1 inch tape with 5, 6, 7, or 8 channels
- *Single, Long-Filament Lamp:*
  - Assures uniform light over entire cell array
  - Has life expectancy of over 2 years continuous operation
- *Direct-Coupled Stepping Motor:*
  - Runs synchronously, stops on character synchronously or asynchronously
  - Provides speeds up to 60 characters per second
  - Has no gear train, no cams, no solenoids, and no ratchets or pawls
  - Requires no lubrication
  - Torque is factory-set (stall torque will not break tape)
  - Employs integral magnetic detent
- *Large, 50-Tooth Sprocket*
  - Has relatively long tape wrap to prolong tape life
  - Comprises the only moving part of the reader
- *Solid-State Logic:*
  - Furnished on plug-in printed circuit cards
  - Normally non-gated, but can be furnished gated if desired
- *Tight Tape Switch:*
  - Guards against tape breakage
- *Standard Mounting:*
  - 7" x 7" panel or 19-inch rack

## OPTIONAL ACCESSORIES

- Visual Channel Readout
- Regulated Power Supply (12VDC 5% Ripple 2 Amperes)
- Silicon Transistorized Motor Driver Printed Circuit Card
- Gated, 8-volt, Silicon Squaring Amplifier Printed Circuit Card
- Decoder Printed Circuit Card
- Tape Transport with Circuitry
- No-Rewind, Center-Feed Take Up

CARLTON CONTROLS CORPORATION

15 SAGAMORE ROAD • WORCESTER, MASS. 01605 • TEL. (617) 791-6544



Sept. 28, 1965

TH. Nelson  
Box 1546  
Poughkeepsie, N.Y. 12603

Dear Sir:

In accordance with your recent request, we are pleased to enclose literature describing our new Model TR-10 photoelectric tape Reader.

Thank you for your interest. Please let us know if you would like any additional information or if we can be of further assistance to you.

Very truly yours,

CARLTON CONTROLS CORP.

A handwritten signature in blue ink that reads "Joseph V. T. Kempton". The signature is written in a cursive style and is positioned above the printed name and title.

JOSEPH V. T. KEMPTON  
Sales Manager

JVTK/gl

Enc.